



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

*** *** ***



AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area 366-0123

Case Vehicle (A): 1999 Mercury
 Type: Villager, minivan
 Driver: 47-year-old female
 CDC: 12-FDEW-2

Vehicle (B): 1989 Acura
 Type: Legend, 4-door sedan
 Driver: 17-year-old female
 CDC: 99-0000-0

SITUATION

(Slide 1) Case vehicle (A) was traveling south in the inside southbound lane of a straight section of a dry asphalt, six-lane divided roadway, with a speed limit of 48 kph (30 mph), and was approaching the controlled intersection of a traffic channel, which diverts northbound traffic through a raised traffic island into a private drive. Vehicle (B) had been traveling north in the inside northbound lane of the six-lane road and turned left into the traffic channel. (Slide 2) As case vehicle (A) entered the intersection, vehicle (B) moved out of the traffic channel and across the path of case vehicle (A). The driver of case vehicle (A) reportedly attempted to avoid the collision by braking and steering to the left, but the right front of case vehicle (A) struck the right side of vehicle (B).

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

(Slide 3) Damage to case vehicle (A) was minor. The direct-damage length was 128 cm at the bumper level, and began at the right-front bumper corner. The vehicle overlap (VOL) was calculated to be 78%. The maximum crush was 22 cm and occurred above the bumper, at the right-front corner.

Using the WinSMASH accident-reconstruction program and (slides 4, 5, 6, 7) c-values for case vehicle (A), the following impact severity was calculated:

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V (ROLDMISS)	8 (5)	-8 (-5)	1 (1)
Vehicle (B)	delta V (ROLDMISS)	11 (7)	-9 (-6)	-5 (-3)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

(Slides 8, 9, 10, 11) The front bumper, the right headlight assembly, the hood, the grille, the radiator, and the right fender were damaged from direct contact with vehicle (B). All the doors remained closed and operational. The hood latch and the hood hinges were not damaged. The rear edge of the hood was not elevated. There was no change in the left or right wheelbase.

Interior

(Slides 12, 13, 14, 15, 16, 17) This vehicle was equipped with both steering-wheel and passenger frontal-impact airbags, which deployed during the frontal impact. (Slides 18, 19, 20, 21) No damage was noted to the airbag skins or module doors/flaps. (Slide 22) The steering-wheel rim was not deformed. (Slides 23, 24, 25, 26, 27, 28) The windshield was not damaged. No interior damage was noted. (Slides 29, 30) There was no evidence of occupant contact with the sunvisor/windshield header area or the knee bolster. No intrusions were noted.

OCCUPANT INJURIES AND KINEMATICS

The 5-ft, 6-in, 148-lb, 47-year-old female driver (slide 31) was wearing the available three-point belt, and the steering-wheel airbag deployed. She was reportedly driving with her hands at the ten and two o'clock positions on the steering wheel, with the steering wheel turned to the left at the time of impact. She reportedly had the tilt steering-wheel adjuster set in the lowest position, and the seat adjusted to a middle position.

(Slide 32, 33, 34) On impact, the driver moved forward into the belt restraint and airbag. She sustained a contusion, an abrasion, and a laceration to the right-inner forearm, probably from contact by the edge of the upper airbag module flap. The driver did not seek medical attention for these injuries.

The following table and (slide 35) attached drawing summarize the injuries sustained by the driver.

Restraints: 3-point belt worn; airbag deployed

Stature: 168 cm (5 ft, 6 in)

Mass: 67 kg (148 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Laceration, right inner forearm	1		Airbag module flap	
Abrasion, right inner forearm	1		Airbag module flap	
Contusion, right inner forearm	1		Airbag module flap	
<u>Maximum A.I.S. Level</u>	<u>1</u>			
<u>Injury Severity Score</u>	<u>1</u>			

Duplicate columns 1-8
from the previous card.

Module G 1 Format 0 2
9 10 11 12

GENERAL INFORMATION GI-1

TIME

DATE OF COLLISION

 / /

HOUR OF COLLISION

(24 HOUR CLOCK)

LOCATION

STATE:

STATE FIPS CODE

AREA

- (1) URBAN
(2) RURAL
(9) UNKNOWN

ENVIRONMENTAL CONDITIONS

LIMITED-ACCESS HIGHWAY

- (0) NO
(1) YES
(9) UNKNOWN

ROAD, TOTAL TRAFFIC LANES
(FOR CASE VEHICLE)

- (1) 1-LANE
(2) 2-LANES
(3) 3-LANES
(4) 4 OR MORE LANES
(5) DIVIDED, 4 OR MORE LANES
(6) PARKING LOT/DRIVEWAY
(7) OTHER:
(9) UNKNOWN

INTERSECTING RD, TOTAL LANES

CHOOSE FROM ABOVE LIST, OR

- (8) NOT APPLICABLE

TYPE OF ROAD SURFACE

- (1) ASPHALT
(2) CONCRETE
(3) GRAVEL
(4) MORE THAN ONE (CIRCLE EACH)
(7) OTHER:
(9) UNKNOWN

ROAD DEFECTS

- (0) NO
(1) YES
(9) UNKNOWN

ENVIRONMENTAL CONDITIONS

CONSTRUCTION ZONE

- (0) NO
(1) YES
(9) UNKNOWN

ROAD ALIGNMENT
VERTICAL PLANE

- (1) LEVEL
(2) CREST OF HILL
(3) SLOPE (2%)
(4) BOTTOM OF HILL
(9) UNKNOWN

ROAD ALIGNMENT
HORIZONTAL PLANE

- (1) STRAIGHT
(2) CURVE
(3) T - SHAPED
(4) Y - SHAPED
(7) OTHER:
(9) UNKNOWN

SURFACE COVERING

- (10) DRY

(21) WATER - DAMP
(22) WATER - WET
(23) WATER - PUDDLED
(29) WATER - AMOUNT UNKNOWN

(31) SNOW - LOOSE
(32) SNOW - PACKED
(39) SNOW - CONDITION UNKNOWN

(41) ICE
(51) SLUSH
(61) SPILLED GRAVEL
(71) OTHER:
(99) UNKNOWN

VISIBILITY LIMITATION
(FOR CASE VEHICLE)

- (0) NONE
(1) CLOUDY/DARK
(2) FOG
(3) SMOKE
(4) WINDSHIELD CONDITION
(5) GLARE
(6) RAIN
(7) OTHER:
(8) ICE/SNOW
(9) UNKNOWN

VISIBILITY OBSTRUCTION
(FOR CASE VEHICLE)

- (0) NONE
(1) BUILDING
(2) SIGN
(3) VEGETATION (E.G. BUSHES, SHRUBS)
(4) TREE
(5) HILL OR CURVE IN ROAD
(6) VEHICLE IN TRANSPORT
(7) OTHER:
(8) PARKED VEHICLE
(9) UNKNOWN

ENVIRONMENTAL CONDITIONS

SPEED LIMIT

- | | | |
|-----|-----------------|----------|
| (0) | 5-45 km/h | 5-25 mph |
| (1) | 46-55 | 30 |
| (2) | 56-60 | 35 |
| (3) | 61-70 | 40 |
| (4) | 71-79 | 45 |
| (5) | 80-85 | 50 |
| (6) | 86-90 | 55 |
| (7) | 91-105 | 60 |
| (8) | OVER 105 | 65 |
| (9) | UNKNOWN | |

40

PRECIPITATION

- (0) NONE
(1) RAIN
(2) SNOW
(3) HAIL
(4) FREEZING RAIN/SLEET
(7) OTHER: _____
(9) UNKNOWN

41

RATE OF PRECIPITATION

- (1) LIGHT/MIST
(2) MODERATE
(3) HEAVY
(8) NOT APPLICABLE
(9) UNKNOWN

42

TEMPERATURE

- (0) BELOW -15° C BELOW 5° F
(1) -15 TO -6 5 TO 22
(2) -5 TO -1 23 TO 31
(3) 0 TO 2 32 TO 36
(4) 3 TO 5 37 TO 41
(5) 6 TO 15 42 TO 59
(6) 16 TO 25 60 TO 77
(7) 26 TO 35 78 TO 95
(8) OVER 35 OVER 96
(9) UNKNOWN

9
43

CROSSWIND

- (0) NONE
(1) LIGHT
(2) STRONG
(3) GUSTY & STRONG
(9) UNKNOWN

9

LIGHT CONDITIONS

- (1) DAYLIGHT
(2) DAWN
(3) DUSK
(4) DARK, LIGHTED
(5) DARK, UNLIGHTED
(6) DARK, UNKNOWN IF LIGHTED
(9) UNKNOWN

45

MECHANICAL MALFUNCTION

WAS THERE MENTION
OF A MECHANICAL MALFUNCTION
IN CASE VEHICLE

- (0) NO
(1) YES
(2) YES, DID NOT CONTRIBUTE
TO ACCIDENT
(9) UNKNOWN

46

**THE FOLLOWING SECTION SHOULD BE FILLED
OUT IF A MECHANICAL MALFUNCTION IS
RECOGNIZED OR SUSPECTED.**

CIRCLE ITEMS INVOLVED. SUPPORT ANY
ITEMS CIRCLED WITH COMMENTS.

BRAKE SYSTEM DRIVER CONTROLS

EXHAUST SYSTEM

STEERING SYSTEM

SUSPENSION SYSTEM	VISIBILITY ITEMS
<p>1. <u>_____</u></p> <p>2. <u>_____</u></p> <p>3. <u>_____</u></p> <p>4. <u>_____</u></p> <p>5. <u>_____</u></p> <p>6. <u>_____</u></p> <p>7. <u>_____</u></p> <p>8. <u>_____</u></p> <p>9. <u>_____</u></p> <p>10. <u>_____</u></p> <p>11. <u>_____</u></p> <p>12. <u>_____</u></p> <p>13. <u>_____</u></p> <p>14. <u>_____</u></p> <p>15. <u>_____</u></p> <p>16. <u>_____</u></p> <p>17. <u>_____</u></p> <p>18. <u>_____</u></p> <p>19. <u>_____</u></p> <p>20. <u>_____</u></p>	<p>1. <u>_____</u></p> <p>2. <u>_____</u></p> <p>3. <u>_____</u></p> <p>4. <u>_____</u></p> <p>5. <u>_____</u></p> <p>6. <u>_____</u></p> <p>7. <u>_____</u></p> <p>8. <u>_____</u></p> <p>9. <u>_____</u></p> <p>10. <u>_____</u></p> <p>11. <u>_____</u></p> <p>12. <u>_____</u></p> <p>13. <u>_____</u></p> <p>14. <u>_____</u></p> <p>15. <u>_____</u></p> <p>16. <u>_____</u></p> <p>17. <u>_____</u></p> <p>18. <u>_____</u></p> <p>19. <u>_____</u></p> <p>20. <u>_____</u></p>

ELECTRICAL SYSTEM TIRES

THROTTLE CONTROLS UNKNOWN

OTHER: _____

COMMENTS: _____

GENERAL INFORMATION GI-3

CRASH DETAILS

CASE VEHICLE AND OBJECT

- (0) NO
- (1) YES
- (9) UNKNOWN

0
47

CASE VEHICLE ROLLOVER

- (0) NO ROLLOVER
- (1) YES, FIRST EVENT
- (2) YES, SUBSEQUENT EVENT
- (3) YES, SEQUENCE UNKNOWN
- (9) UNKNOWN

0
48

CASE VEHICLE RAN OFF ROADWAY (BEFORE FIRST IMPACT)

- (0) NO
- (1) YES
- (9) UNKNOWN

0
49

MOVING CASE VEHICLE AND CONTACTED MOVING VEHICLE

- (0) NO
- (1) YES
- (9) UNKNOWN

1
50

CASE VEHICLE AND CONTACTED STOPPED VEHICLE

- (0) NO
- (1) YES
- (9) UNKNOWN

0
51

STOPPED CASE VEHICLE AND CONTACTED VEHICLE

- (0) NO
- (1) YES
- (9) UNKNOWN

0
52

TOTAL NUMBER OF VEHICLES CONTACTED BY CASE VEHICLE IN CRASH

- (8) 8 OR MORE
- (9) UNKNOWN

1
53

ANY FIRE IN THIS CRASH (NOT JUST CASE VEHICLE)

- (0) NO
- (1) YES
- (9) UNKNOWN

0
54

HIGHEST POLICE INJURY SEVERITY CODE IN CRASH (NOT JUST CASE VEHICLE)

- (0) O - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING INJURY
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO ACCIDENT
- (7) NON-FATAL INJURY
SEVERITY UNKNOWN
- (9) UNKNOWN

2
55

DRIVER IMPAIRMENT

DRIVER ALCOHOL INVOLVEMENT (CASE VEHICLE)

- (0) NONE
- (1) YES
- (9) UNKNOWN/NOT REPORTED/
NO DRIVER

0
56

DRIVER ALCOHOL BAC (CASE VEHICLE)

- (80) NO TEST
- (90) CHEMICAL TESTS, NO RESULTS
- (95) AUTOPSY, NO RESULTS
- (99) UNKNOWN

80
57 58

WAS THERE MENTION OF DRIVER IMPAIRMENT FOR CASE VEHICLE?

- (0) NO
- (1) YES
- (9) UNKNOWN

0
59

LIST IMPAIRMENTS MENTIONED:

Post - CRASH DETAIL

MANNER CASE VEHICLE LEFT SCENE

- (1) DRIVEN
- (2) TOWED DUE TO DAMAGE
- (3) TOWED, NOT DUE TO DAMAGE
- (4) TOWED, REASON UNKNOWN
- (9) UNKNOWN

2
60

ACCIDENT SCHEMATIC

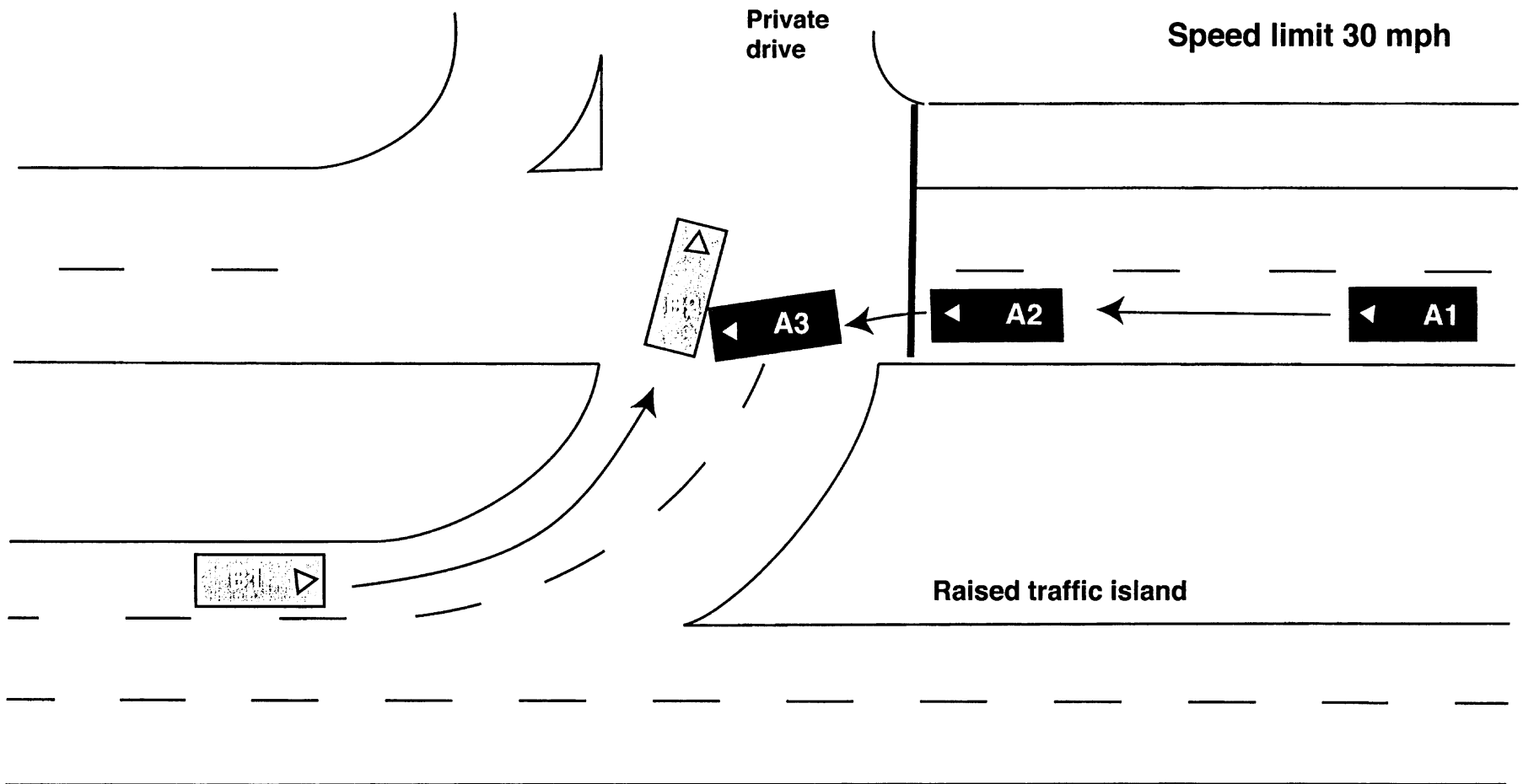
G14

ACCIDENT DESCRIPTION: Case vehicle (A) was traveling south in the inside southbound lane of a 6-lane divided roadway, approaching the controlled intersection of a traffic channel, which diverts northbound traffic through a raised traffic island into a private drive. Vehicle (B) was traveling northwest in the inside lane of the traffic channel. As case vehicle (A) entered the intersection, the driver of vehicle (B) made a left turn out of the traffic channel and across the path of case vehicle (A). The driver of case vehicle (A) reportedly attempted to avoid the collision by braking and steering left, but the right front of case vehicle (A) struck the right side of vehicle (B).

CASE VEHICLE (A): 1999 Mercury Villager
OTHER VEHICLE (B): 1989 ACURA LEGEND
THIRD VEHICLE (C): N/A



NORTH



Duplicate columns 1-8
from the previous card.Module 0 V Format 0 4
9 10 11 12

OTHER VEHICLE OV-1

MAKE: Acura
MODEL: LegendCARGO: UnkVIN J H 4 K A 2 7 X K C 0 [REDACTED]

13

29

MANUFAC/BODY CODE

88628
30 34

MAKE/MODEL CODE

4502
38

MODEL YEAR

1989
39 42

VEHICLE MASS (kg)

001396
43 48IF SEPARATE REPORT WAS MADE,
GIVE VEHICLE NUMBER0NUMBER OF OCCUPANTS
(ENTER 9'S IF UNKNOWN)02
51

TRAVELING SPEED (km/h)

997
54

- (000) PARKED OR STOPPED
 (995) JUST STARTING UP
 (996) BACKING UP
 (997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
 (998) SPEED EXCESSIVE (BUT UNKNOWN)
 (999) UNKNOWN

HIGHEST POLICE INJURY SEVERITY
CODE FOR THIS VEHICLE

- (0) O - NO INJURY
 (1) C - POSSIBLE INJURY
 (2) B - NON-INCAPACITATING INJURY
 (3) A - INCAPACITATING INJURY
 (4) K - FATAL
 (5) INJURED, SEVERITY UNKNOWN
 (6) DIED PRIOR TO ACCIDENT
 (7) NON-FATAL INJURY
 SEVERITY UNKNOWN
 (8) UNOCCUPIED VEHICLE
 (NOT APPLICABLE)
 (9) UNKNOWN

0
55

VEHICLE TYPE

PASSENGER VEHICLE

- (02) LARGE
 (03) LIMOUSINE
 (17) PICKUP CAR
 (20) UNKNOWN PASSENGER VEHICLE BODY
 (24) SUB-MINI
 (25) MINI
 (26) SUB-COMPACT
 (27) COMPACT
 (28) INTERMEDIATE
 (29) FULL

28
56 57

MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
E.G. JEEP, BRONCO)
 (15) LARGE UTILITY (WHEELBASE MORE THAN 107",
E.G. PANEL TRUCK, SUBURBAN)
 (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
 (17) PICKUP CAR WITH CANOPY/SHELL COVER
 (21) MOTOR HOME
 (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
 (23) PICKUP CAR WITH SLIDE-IN CAMPER
 (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) VAN
 (12) PICKUP TRUCK
 (13) UNKNOWN LIGHT TRUCK
 (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
 (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
 (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
 (30) UNKNOWN TRUCK TYPE
 (31) CHASSIS-MOUNTED CAMPER
 (33) DELIVERY VAN (WALK-IN)
 (34) STRAIGHT TRUCK
 (35) TRUCK-TRACTOR (BOBTAIL)
 (36) CHASSIS-CAB
 (37) UNKNOWN HEAVY TRUCK
 (38) TRACTOR & SEMI-TRAILER (SEMI)
 (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
 (41) SCHOOL BUS
 (42) INTERCITY BUS (BETWEEN CITIES)
 (43) TRANSIT BUS (INTRACITY)
 (44) STREETCAR (ON TRACKS)

- (68) TRAIN (CARS)
 (69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)
(999) UNKNOWN271
58 59 60

Duplicate columns 1-8
from the previous card.

Module 0 V Format 0 2
9 10 11 12

OTHER VEHICLE OV-2

ORIGINAL SPECIFICATIONS

Wheelbase 271 cm

Front Overhang 098 cm

Curb Weight 1396 kg

Rear Overhang 108 cm

Average Track Width 150 cm

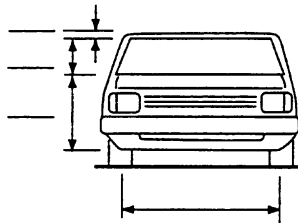
Undeformed End Width (UEW) 999 cm

Overall Length 478 cm

Engine Displacement 9.9 L

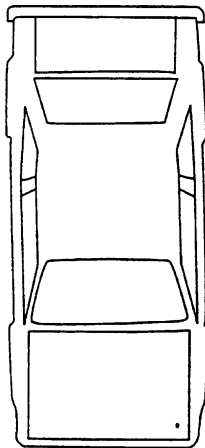
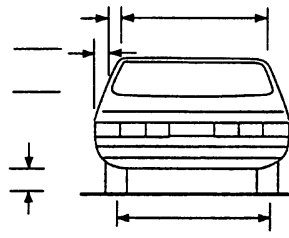
Overall Width (OAW) 175 cm

Engine: # of Cylinders 99

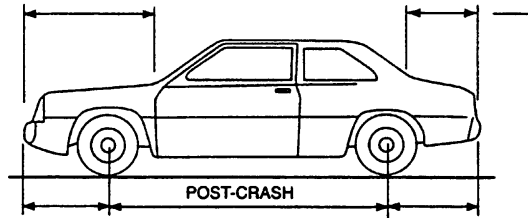


Not Inspected

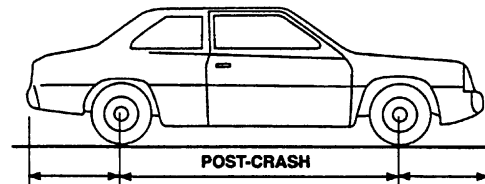
Original
Bumper Height



Bumper corner
Stringline



Bumper corner
Stringline



Bumper corner
Stringline

Bumper corner
Stringline

FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL)

Front-End Overlap (Percent) = $\frac{DDL}{UEW}$

Vehicle Overlap (Percent) = $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$

999 cm

99 %

99 %

Duplicate columns 1-8
from the previous card.

Module V D Format 0 4
9 10 11 12

VEHICLE DESCRIPTION VD-1

MAKE: Mercury

MODEL: Villager

CARGO: None per driver

VIN 4 M 2 X V 1 1 T 0 X [REDACTED]

MANUFAC/BODY CODE 12211

MAKE/MODEL CODE 0962

MODEL YEAR 1999

VEHICLE MASS (kg) 001789

ODOMETER (km)
(ENTER 9'S IF UNKNOWN)
(ENTER 8'S IF ELECTRONIC) 039059

NUMBER OF OCCUPANTS
(ENTER 9'S IF UNKNOWN) 01

TRAVELING SPEED (km/h) 999

- (000) PARKED OR STOPPED
(995) JUST STARTING UP
(996) BACKING UP
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
(998) SPEED EXCESSIVE (BUT UNKNOWN)
(999) UNKNOWN

VEHICLE TYPE

PASSENGER VEHICLE

- (11) 2-DOOR HARDTOP (NO UPPER B-PILLAR)
(12) 2-DOOR SEDAN OR COUPE
(ANY UPPER B-PILLAR)
(13) 4-DOOR HARDTOP
(14) 4-DOOR SEDAN
(15) STATION WAGON
(16) CONVERTIBLE
(18) OTHER PASS. VEH.:
(19) PASSENGER VEHICLE, TYPE UNKNOWN

MULTIPURPOSE PASSENGER VEHICLE

- (21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO)
(22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
(23) VAN, SIZE UNKNOWN
(24) VAN, SMALL (MINI)
(25) VAN, LARGE
(29) MPV, TYPE UNKNOWN
(30) MOTOR HOME

TRUCK

- (31) PICKUP TRUCK, UNKNOWN
(32) PICKUP TRUCK, SMALL (DOWNSIZED)
(33) PICKUP TRUCK, LARGE

(99) UNKNOWN

STOLEN VEHICLE

- (0) NO
(1) YES
(8) NOT COLLECTED
(9) UNKNOWN

BODY STRUCTURE

- (1) BODY & FRAME
(2) UNITIZED
(3) INTEGRAL-STUB FRAME
(4) BODY & PLATFORM FRAME
(E.G. VW BUG)
(5) PARTIALLY UNITIZED
(7) OTHER:
(9) UNKNOWN

TRANSMISSION

- (0) NONE
(1) AUTOMATIC
(2) MANUAL
(9) UNKNOWN

LOCATION OF TRANSMISSION SELECTOR LEVER

- (1) FLOOR
(2) CONSOLE
(3) COLUMN
(7) OTHER:
(9) UNKNOWN

STEERING

- (1) POWER
(2) MANUAL
(9) UNKNOWN

BRAKES

- (1) POWER
(2) MANUAL
(9) UNKNOWN

24

8
62

2
63

1
64

3
65

1
66

1
67

TYPE OF BRAKES

- (1) DRUM, ALL WHEELS
- (2) DISC, FRONT WHEELS
- (3) DISC, ALL WHEELS
- (9) UNKNOWN

2
68

WHEELBASE (cm)
(999) Unknown

285
76 77 78

BRAKE ANTI-LOCK DEVICE

- (0) NONE INSTALLED
- (1) TWO-WHEEL
- (2) FOUR-WHEEL
- (7) EQUIPPED, UNKNOWN WHEELS
- (9) UNKNOWN

2
69

PLASTIC ANTI-LACERATIVE
INNER LAYER GLASS EQUIPPED

- (0) NONE
- (1) WINDSHIELD
- (2) WINDSHIELD AND SIDE
- (7) OTHER
- (9) UNKNOWN

79

AIR CONDITIONING IN VEHICLE

- (0) NO
- (1) YES
- (8) NOT COLLECTED
- (9) UNKNOWN

8
70

TYPE OF DRIVE

- (1) REAR WHEEL
- (2) FRONT WHEEL
- (3) FOUR WHEEL
- (4) ALL WHEEL DRIVE
- (9) UNKNOWN

2
71

FIELD INVESTIGATOR INSTRUCTIONS:

1. INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.
2. ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE.
3. ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR.
4. ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.

EXAMPLES:

DUAL REAR WHEELS

- (0) NO
- (1) YES
- (9) UNKNOWN

0
72

ORIGINAL TYPE
OF RESTRAINT SYSTEM

- (1) ACTIVE BELT
- (2) PASSIVE BELT
- (3) AIRBAG
- (4) KNEE BOLSTERS
- (7) OTHER: _____
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

3
73

EQUIPPED WITH ROLL BAR

- (0) NO
- (1) YES
- (9) UNKNOWN

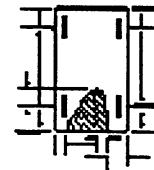
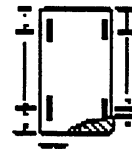
0
74

TYPE OF ROOF

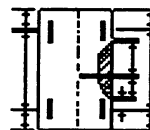
- (0) NONE
- (1) SOLID
- (2) T-TOP CLOSED
- (3) T-TOP OPEN
- (4) SUN ROOF CLOSED
- (5) SUN ROOF OPEN
- (6) CONVERTIBLE CLOSED
- (7) CONVERTIBLE OPEN
- (8) OTHER: _____
- (9) UNKNOWN

4
75

FRONT OR REAR



SIDE



ROOF (REFERENCE TO
TOP OF DOOR SILL
OR WINDOW SILL)



Duplicate columns 1-8
from the previous card.

Module V D Format 0 2
9 10 11 12

VEHICLE DESCRIPTION VD-3

ORIGINAL SPECIFICATIONS

Wheelbase 285 cm

Front Overhang 099 cm
22 24

Curb Weight 1789 kg

Rear Overhang 098 cm
25 27

Average Track Width 161 cm
13 15

Undeformed End Width (UEW) 150 cm
28 30

Overall Length 482 cm
16 18

Engine Displacement 3.3 L
31 32

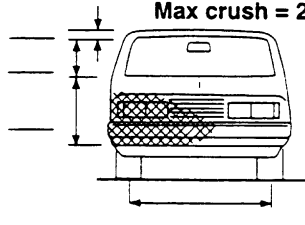
Overall Width (OAW) 187 cm
19 21

Engine: # of Cylinders 06
33 34

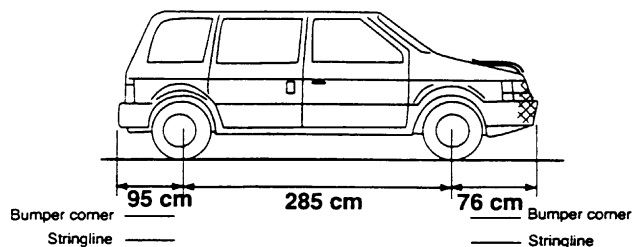
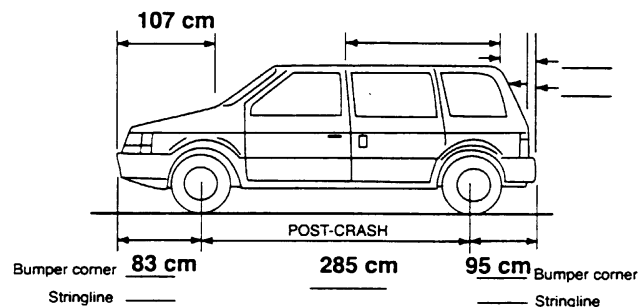
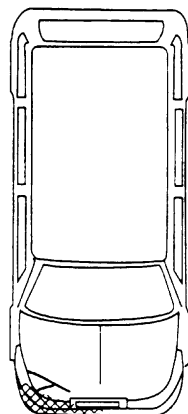
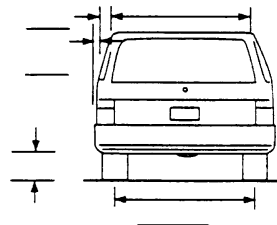
VEHICLE DAMAGE

MEASUREMENTS IN CENTIMETERS

Direct damage length = 128 cm
Max crush = 22 cm



Original
Bumper Height



FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) 128 cm
35 37

Front-End Overlap (Percent) = $\frac{DDL}{UEW}$ 85 %
38 39

Vehicle Overlap (Percent) = $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$ 78 %
40 41

Duplicate columns 1-8
from the previous card.

Module D A Format 0 2
9 10 11 12

DAMAGE DA-1

PRIMARY	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	1 13	
IMPACT SPEED (km/h)	999 14 15 16	999 35 36 37
ESTIMATED BY	1 17	1 38
CRUSH (cm)	022 18 19 20	999 39 40 41
CDC #1	12 FDEW.2 21 27	99.00000.0 42 48
CDC #2	98.00000.0 28 34	98.00000.0 49 55

Duplicate columns 1-8
from the previous card.

Module D A Format 0 3
9 10 11 12

SECONDARY	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	8 13	
IMPACT SPEED (km/h)		
ESTIMATED BY		
CRUSH (cm)		
CDC #1		
CDC #2		

CODES

EVENT NUMBER

(8) NOT APPLICABLE
(9) UNKNOWN

IMPACT SPEED

(998) NOT APPLICABLE
(999) UNKNOWN

IMPACT SPEED ESTIMATOR

(1) INVESTIGATOR
(2) DRIVER
(3) POLICE
(4) "CRASH" PROGRAM
(5) OTHER COMPUTER PROGRAM
SPECIFY: _____
(7) OTHER: _____
(8) NOT APPLICABLE
(NO VEHICLE/NO IMPACT)

CRUSH

(998) NOT APPLICABLE
(NO VEHICLE/DAMAGE)
(999) UNKNOWN

CDC

(9800000) NOT APPLICABLE
(9900000) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module D A Format 0 1
9 10 11 12

DAMAGE DA-2

MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT Ø 2 2
13 15

RIGHT SIDE Ø Ø Ø
16 18

REAR Ø Ø Ø
19 21

LEFT SIDE Ø Ø Ø
22 24

ROOF Ø Ø Ø
25 27

OTHER Ø Ø Ø
28 30

CHRONOLOGICAL SEQUENCE OF DAMAGE/INJURY PRODUCING CRASH EVENTS FOR CASE VEHICLE

NOTE: IF CHRONOLOGICAL ORDER
IS UNKNOWN, EVENT
ORDER IS OPTIONAL.

DO YOU KNOW THIS TABLE
TO BE IN CHRONOLOGICAL ORDER?

1
31

(0) NO
(1) YES

EVENT NUMBER	IMPACT LOCATION (1) ON ROADWAY (2) SHOULDER/MEDIAN/GORE (3) ON ROADSIDE (4) OUTSIDE ROADSIDE RIGHT-OF-WAY (5) OTHER (6) OFF ROADWAY, LOC. UNK. (9) UNKNOWN	IMPACT CONFIGURATION FOR CODES, SEE TABLE ON PAGE DA-3.	OBJECT/VEHICLE CONTACTED FOR CODES, SEE TABLE ON PAGE DA-4.
# 1	<u>1</u> 32	<u>13</u> 34	<u>28</u> 36
#2	<u> </u> 37	<u> </u> 39	<u> </u> 41
#3	<u> </u> 42	<u> </u> 44	<u> </u> 46
#4	<u> </u> 47	<u> </u> 49	<u> </u> 51
#5	<u> </u> 52	<u> </u> 54	<u> </u> 56
#6	<u> </u> 57	<u> </u> 59	<u> </u> 61
#7	<u> </u> 62	<u> </u> 64	<u> </u> 66

CODES FOR
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDESWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDESWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

UNKNOWN

- (99) IMPACT TYPE UNKNOWN

CODES FOR VEHICLE/OBJECT CONTACTED

VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT
- (98) OTHER (*DESCRIBE*)
- (99) UNKNOWN

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

SIZEWHEELBASE

SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (*MINI*)
- (12) PICKUP
- (14) SMALL UTILITY (*WHEELBASE LESS THAN 107", E.G. JEEP, BRONCO*)
- (15) LARGE UTILITY (*WHEELBASE MORE THAN 107", E.G. PANEL TRUCK, SUBURBAN*)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) SMALL VAN (*E.G. ECONOLINE*)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (*E.G. PANEL TRUCK, SUBURBAN*)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (*WALK-IN*)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (*BOBTAIL*)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (*SEMI*)
- (39) TRUCK (*OR SEMI*) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (*BETWEEN CITIES*)
- (43) TRANSIT BUS (*INTRACITY*)
- (44) STREETCAR (*ON TRACKS*)

MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (*OR WITH SIDECAR*)

SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (*DESCRIBE*)
- (61) SNOWMOBILE
- (62) ATV (*ALL TERRAIN VEHICLE*)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (*CAMPER*)
- (67) TRAILER, COMMERCIAL (*CARGO*)
- (68) TRAIN (*CARS*)
- (69) LOCOMOTIVE (*ENGINE, SWITCHER*)

OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (*E.G. PERSON RIDING ANIMAL, CART*)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (*E.G. OBJECT DISLODGED FROM OTHER VEHICLE, FALLEN TREE, ROCKS*)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (*EXCLUDING (65)*)
- (77) SIGN POST, UTILITY POLE, TREE
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (*ROLLOVER ONLY*)
- (81) CURB (*DAMAGE PRODUCING IMPACTS ONLY*)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (*TIMBER, METAL, CONCRETE*)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (*MEDIAN*)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8
from the previous card.

Module C R Format 0 1
9 10 11 12

CRASH RECONSTRUCTION CR-1

for ΔV

	CASE VEHICLE PRIMARY IMPACT			CASE VEHICLE SECONDARY IMPACT		
	CASE VEHICLE	CONTACTED VEHICLE		CASE VEHICLE	CONTACTED VEHICLE	
EVENT NUMBER	1					
ΔV (km/h) TOTAL	008	011				
LONGITUDINAL*	-008	-009				
LATERAL*	+001	-005				
*NOTE: THESE ΔV COMPONENTS MUST INCLUDE SIGN.						
EXAMPLES: 10 km/h = ± 010 -7 km/h = -007						
ENERGY DISSIPATED BY CRUSH (kj)	0006	0011				
RECONSTRUCTION						
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	21					
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL						
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL						
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL						
NOT RECONSTRUCTED BECAUSE						
(02) INSUFFICIENT DATA						
(03) EXCESSIVE UNDERRIDE/ OVERRIDE						
(04) ROLLOVER						
(05) VAULTING						
(06) OTHER TRAVEL IN MORE THAN ONE PLANE						
(07) NON-HORIZONTAL FORCE						
(08) SIDESWIPE-TYPE DAMAGE						
(09) YIELDING OBJECT						
(10) OTHER:						
(11) AT LEAST ONE VEHICLE BEYOND SCOPE						
(12) OTHER VEHICLE NOT INSPECTED						
MODE						
(1) CDC ONLY	2					
(2) CDC & DETAILED DAMAGE						
(3) TRAJECTORY & CDC						
(4) TRAJECTORY & CDC & DETAILED DAMAGE						
(5) NOT RECONSTRUCTED						
COMPUTER PROGRAM SPECIFY: <u>WINSMASS</u> <u>KOLDMASS</u>						

Duplicate columns 1-8
from the previous card.

Module C R Format 0 2
9 10 11 12

CRASH RECONSTRUCTION CR-2

for EBS

	CASE VEHICLE PRIMARY IMPACT			CASE VEHICLE SECONDARY IMPACT		
	CASE VEHICLE	CONTACTED VEHICLE		CASE VEHICLE	CONTACTED VEHICLE	
EVENT NUMBER	<u>1</u> 13			<u> </u> 47		
EBS (km/h) TOTAL	<u>009</u> 14 15 16	<u>999</u> 32 33 34		<u> </u> <u> </u> <u> </u> 48 49 50	<u> </u> <u> </u> <u> </u> 66 67 68	
LONGITUDINAL *	<u>-008</u> 17 20	<u>9999</u> 35 38		<u> </u> <u> </u> <u> </u> <u> </u> 51 54	<u> </u> <u> </u> <u> </u> <u> </u> 69 72	
LATERAL *	<u>+001</u> 21 24	<u>9999</u> 39 42		<u> </u> <u> </u> <u> </u> <u> </u> 55 58	<u> </u> <u> </u> <u> </u> <u> </u> 73 76	
* NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.						
EXAMPLES: 10 km/h = <u>+010</u> -7 km/h = <u>-007</u>						
ENERGY DISSIPATED BY CRUSH (kj)	<u>0006</u> 25 28 <u>6147</u>	<u>9999</u> 43 46		<u> </u> <u> </u> <u> </u> <u> </u> 59 62	<u> </u> <u> </u> <u> </u> <u> </u> 77 80	
RECONSTRUCTION						
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>21</u> 29 30			<u> </u> <u> </u> 63 64		
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL						
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL						
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL						
NOT RECONSTRUCTED BECAUSE						
(02) INSUFFICIENT DATA						
(03) EXCESSIVE UNDERRIDE/ OVERRIDE						
(04) ROLLOVER						
(05) VAULTING						
(06) OTHER TRAVEL IN MORE THAN ONE PLANE						
(07) NON-HORIZONTAL FORCE						
(08) SIDESWIPE-TYPE DAMAGE						
(09) YIELDING OBJECT						
(10) OTHER: _____						
(11) AT LEAST ONE VEHICLE BEYOND SCOPE						
(12) OTHER VEHICLE NOT INSPECTED						
MODE						
(1) CDC ONLY	<u>2</u> 31			<u> </u> 65		
(2) CDC & DETAILED DAMAGE						
(3) TRAJECTORY & CDC						
(4) TRAJECTORY & CDC & DETAILED DAMAGE						
(5) NOT RECONSTRUCTED						
COMPUTER PROGRAM SPECIFY: _____						

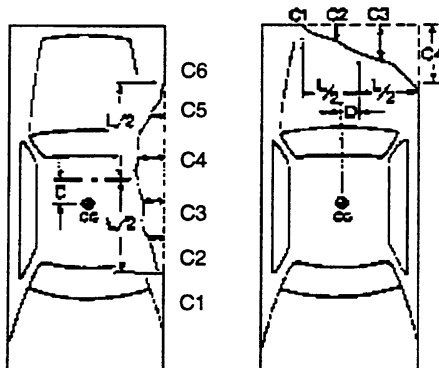
- NOTES:
1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
 2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
 3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
 4. USE THE CENTER OF THE WHEELBASE AS THE CG.

OTHER VEHICLE LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L

Not
Inspected



DL

UDL

PLANE:

- (1) Bumper
(2) Above Bumper
(3) Sill
(4) Above Sill
(5) Other _____
(9) Unknown

CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card).

Duplicate columns 1 - 12 for each completed line.

[illegible]

Duplicate columns 1-8
from the previous card.

Module W T Format 0 1
9 10 11 12

WHEELS AND TIRES

WT-1

WHEELS--DAMAGED

- (0) NO
(1) YES
(9) UNKNOWN

LF

0
13

RF

0

RR

0

LR

0
16

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P22560R15
25

RF P22560R15
35

RR P22560R15
45

LR P22560R15
55

TIRE TREAD TYPE

- (1) REGULAR
(2) SNOW
(3) SLICKS
(4) ALL WEATHER (MS)
(7) OTHER: _____
(9) UNKNOWN

LF

4
17

RF

4

RR

4

LR

4
20

CARCASS CONSTRUCTION

- (1) BIAS
(2) BELTED BIAS
(3) RADIAL
(4) ELLIPTICAL
(5) HI PRESSURE SPARE
(6) SPACE SAVER SPARE
(7) OTHER: _____
(9) UNKNOWN

LF

3
21

RF

3

RR

3

LR

3
24

IF VEHICLE IS EQUIPPED WITH DUAL
WHEELS, COMPLETE FOR OUTER WHEELS
AND MAKE NOTES ON INNER WHEELS.

NOTES: _____

Duplicate columns 1-8
from the previous card.

Module F T Format 0 1
9 10 11 12

FUEL AND FUEL TANKS FT-1

TYPE OF PROPULSIVE FUEL (1) GASOLINE (2) DIESEL OIL (3) LPG (4) ELECTRIC (7) OTHER: _____ (9) UNKNOWN	<u>1</u> 13	AUXILIARY TANK TYPE (1) OEM TANK (2) AFTER MARKET TANK (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	<u>8</u> 21
MAIN TANK LOCATION	<u>322</u> 14 16	AUXILIARY TANK LOCATION	<u>888</u> 22 24
MAIN FILLER CAP LOCATION	<u>113</u> 17 19	AUXILIARY FILLER CAP LOCATION	<u>888</u> 25 27
MAIN TANK MATERIAL	<u>1</u> 20	AUXILIARY TANK MATERIAL	<u>8</u> 28

TANK AND FILLER CAP LOCATION CODES

FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F L Format 0 1
9 10 11 12

FUEL LEAKAGE FL-1

DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.

(1) YES COMPLETE PAGE.



LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	14 15	—	—	—	— —	21
#2	22 23	—	—	—	— —	29
#3	30 31	—	—	—	— —	37
#4	38 39	—	—	—	— —	45
#5	46 47	—	—	—	— —	53

I LEAKING COMPONENT

TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-EEC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN
- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) RUPTURED
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

V LOCATION OF LEAK

FIRST DIGIT
(LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL
- (2) P, BETWEEN COWL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F, & P
- (5) Z, P, & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

SECOND DIGIT
(LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F R Format 0 1
9 10 11 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.

(1) YES COMPLETE PAGE.


13

DID FIRE START IN CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

—
14

SEVERITY OF FIRE DAMAGE

- (1) MINOR
(2) MODERATE
(3) SEVERE
(9) UNKNOWN

—
16

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE
(2) SLOW/MODERATE
(9) UNKNOWN

—
15

DID AN INJURY TO CASE
VEHICLE OCCUPANT RESULT FROM
FIRE IN OR ON CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

—
17

PROVIDE NOTES IF FIRE OCCURRED.

Duplicate columns 1-8
from the previous card.

Module E D Format 0 1
9 10 11 12

EXTERIOR DAMAGE

ED-1

HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (0) NO
(1) YES
(8) NOT APPLICABLE
(9) UNKNOWN

HOOD LATCH(ES)- -RELEASED

13

-DAMAGED

14

-JAMMED

15

HOOD HINGES- -LEFT, DAMAGED

16

-LEFT, SEPARATED
(COMPLETE)

17

-RIGHT, DAMAGED

18

-RIGHT, SEPARATED
(COMPLETE)

19

HOOD REMAINED ON VEHICLE

20

REAR EDGE OF HOOD- -ELEVATED

21

-CONTACTED WINDSHIELD

22

-PENETRATED WINDSHIELD

23

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE
(2) COWL AREA
(3) SIDE
(8) NOT APPLICABLE
(9) UNKNOWN

24

STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE
(1) FLEXIBLE MATERIAL
(2) POT
(3) SINGLE U-JOINT
(4) DOUBLE U-JOINT
(5) FLEXIBLE CABLE
(6) COMBINATION OF ABOVE
(CIRCLE EACH)
(7) OTHER: _____
(8) EQUIPPED, TYPE UNKNOWN
(9) UNKNOWN, IF EQUIPPED

9
26

COUPLING- -DAMAGED

9
27

(USE CODES
FROM HOOD
PERFORMANCE)

-SEPARATED
(COMPLETE)

9
28

ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED
(01) - (07) SEE UNITS ON PAGE ED-2
(88) NOT COLLECTED
(97) OTHER: _____
(98) EQUIPPED, TYPE UNKNOWN
(99) UNKNOWN IF EQUIPPED

8 8
29 30

ORIGINAL LENGTH (mm)

F (OR H): _____

TELESCOPED LENGTH (mm)

G: _____

DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (888) NOT COLLECTED
(991) NOT MEASURED/NO
COMPRESSION
(992) COMPRESSED, AMOUNT
UNKNOWN
(993) DEVICE EXTENDED
(997) UNABLE TO BE MEASURED
(998) NOT APPLICABLE (NOT
EQUIPPED)
(999) UNKNOWN

8 8 8
31 33

ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (0) NO
(1) YES
(9) UNKNOWN

25

LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN


 34

LEFT DOORS

HOW DID DOORS
OPEN DURING COLLISION?

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
 (2) DOOR-LATCH SEPARATION
 (3) LATCH-STRIKER SEPARATION
 (4) STRIKER-PILLAR SEPARATION
 (5) BODY DISTORTION
 (6) COMBINATION OF ABOVE
 (CIRCLE EACH)
 (7) OPENED, REASON UNKNOWN

- (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

LEFT Pillars

Pillars Separated Completely -

USE CODES:

- (0) NO
 (1) YES
 (4) NO SEPARATION, BUT DAMAGED
 (8) NOT APPLICABLE (NOT EQUIPPED)
 (9) UNKNOWN

-A-Pillar, UPPER


 35

LOWER


 36

-B-Pillar, UPPER


 37

LOWER


 38

-C-Pillar, UPPER


 39

LOWER


 40

-D-Pillar, UPPER


 41

LOWER


 42

-FRONT


 43

-REAR


 44

DOORS JAMMED CLOSED-

USE CODES:

- (0) NO
 (1) YES
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

-FRONT


 45

-REAR


 46

EXTERIOR DAMAGE

ED-3

REAR DOOR

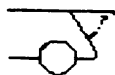
REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)
- (1) HATCHBACK
- (2) ONE-WAY TAILGATE
- (3) TWO-WAY TAILGATE
- (4) CLAMSHELL/DISAPPEARING TAILGATE
- (5) SINGLE DOOR
- (6) DOUBLE DOOR
- (9) UNKNOWN

Hatchback



One-way



Two-way



or



Clamshell



Single door



Double door

HOW DID DOOR
OPEN DURING COLLISION?

- (0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
- (2) DOOR-LATCH SEPARATION
- (3) LATCH-STRIKER SEPARATION
- (4) STRIKER-PILLAR SEPARATION
- (5) BODY DISTORTION
- (6) COMBINATION OF ABOVE
(CIRCLE EACH)
- (7) OPENED, REASON UNKNOWN
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

DOOR JAMMED CLOSED

- (0) NO
- (1) YES
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

2
47

Φ
48

Φ
49

OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA
DAMAGED DURING COLLISION?

- (0) NO
- (1) YES
- (8) NOT APPLICABLE
- (9) UNKNOWN

8
50

SPARE TIRE

- (0) NO SPARE TIRE
- (1) NOT ATTACHED BEFORE COLLISION
- (2) ATTACHED, NOT SEPARATED IN COLLISION
- (3) ATTACHED, SEPARATED DUE TO COLLISION
- (8) NOT COLLECTED
- (9) UNKNOWN

8
51

TRAILER HITCH TYPE

- (0) NO HITCH

BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)
- (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)
- (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)
- (4) LOAD EQUALIZING

OTHER TYPES

- (5) RING-AND-PINTLE
- (6) FIFTH-WHEEL (INCL. P/U)
- (7) OTHER (E.G. CLEVIS-AND-PIN)

- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN IF EQUIPPED

Φ
52

TRAILER TYPE
(AT TIME OF COLLISION)

- (0) NO TRAILER
- (1) TRAVEL-TRAILER/CAMPER
- (2) MOBILE HOME
- (3) BOAT/SNOWMOBILE/ATV TRAILER
- (4) UTILITY TRAILER
- (5) TOWED CAR
- (7) OTHER: _____
- (8) TRAILER, TYPE UNKNOWN
- (9) UNKNOWN

Φ
53

RIGHT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

8
 54

RIGHT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO
 (1) YES
 (4) NO SEPARATION, BUT DAMAGED
 (8) NOT APPLICABLE (NOT EQUIPPED)
 (9) UNKNOWN

-A-PILLAR, UPPER

Φ
 55

LOWER

Φ
 56

-B-PILLAR, UPPER

Φ
 57

LOWER

Φ
 58

-C-PILLAR, UPPER

Φ
 59

LOWER

Φ
 60

-D-PILLAR, UPPER

Φ
 61

LOWER

Φ
 62

RIGHT DOORS

HOW DID DOORS
OPEN DURING COLLISION?

USE CODES:

(00) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (01) HINGE AREA SEPARATION
 (02) DOOR-LATCH SEPARATION
 (03) LATCH-STRIKER SEPARATION
 (04) STRIKER-PILLAR SEPARATION
 (05) BODY DISTORTION
 (06) COMBINATION OF ABOVE
 (CIRCLE EACH)
 (07) OPENED, REASON UNKNOWN
 (11) VAN RIGHT-REAR DOOR OPENED
 (ANY MECHANISM)

(98) NOT APPLICABLE (NO DOOR)

(99) UNKNOWN

-FRONT

Φ Φ
 63 64

-REAR

Φ Φ
 65 66

DOORS JAMMED CLOSED-

USE CODES:

- (0) NO
 (1) YES
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

-FRONT

Φ
 67

-REAR

Φ
 68

VAN REAR DOOR TYPE

- (0) VAN, NO REAR DOOR
 (1) TRACK (SLIDING) - RIGHT SIDE
 (2) SINGLE-HINGED - RIGHT SIDE
 (3) DOUBLE-HINGED - RIGHT SIDE
 (4) TRACK (SLIDING) - RIGHT & LEFT SIDE
 (5) SINGLE-HINGED - RIGHT & LEFT SIDE
 (6) DOUBLE-HINGED - RIGHT & LEFT SIDE
 (7) TRACK AND HINGED COMBINATION
 (8) NOT APPLICABLE (NOT A VAN)
 (9) UNKNOWN

4
 69

WINDSHIELD DAMAGE**WINDSHIELD CRACKED**

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

0
 70

**WINDSHIELD BROKEN
(PLASTIC INTERLAYER TORN)**

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

8
 71

**CRACKED OR BROKEN
BY OCCUPANT CONTACT**

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

8
 72

EXTENT OF BOND SEPARATION

- (0) NONE
 (1) 1 - 20%
 (2) 21 - 40
 (3) 41 - 60
 (4) 61 - 80
 (5) 81 - 99
 (6) TOTAL
 (7) SEPARATED, AMOUNT
 UNKNOWN
 (8) NOT APPLICABLE
 (9) UNKNOWN

0
 73

WINDSHIELD MARK ON CASE VEHICLE:

**SOLAR TINT
 CARLITE
 LAMINATED
 SUNVISOR AS-1
 DOT - FM M-**

WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED
 (98) NOT APPLICABLE (NO WINDSHIELD)
 (99) UNKNOWN

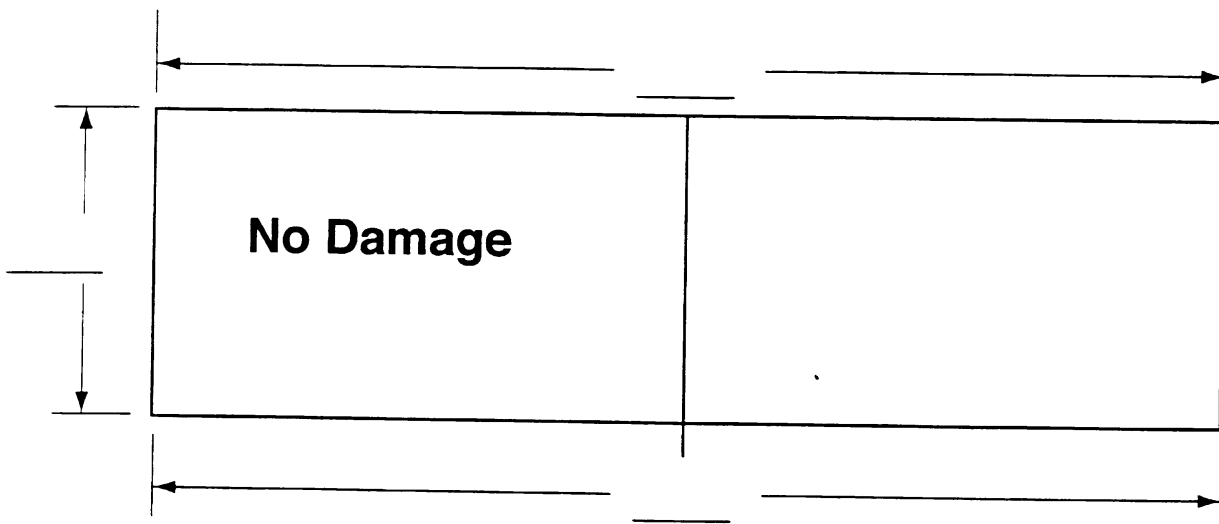
97
 74 75

Roof**DID T-ROOF/SUN ROOF OPEN
DURING COLLISION?**

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (NOT A T-ROOF OR SUN ROOF)
 (9) UNKNOWN

0
 76

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



STEERING WHEEL

STEERING WHEEL RIM DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

0
13

NUMBER OF STEERING WHEEL SPOKES

- (9) UNKNOWN

4
14

STEERING WHL SPOKE DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

0
15

STEERING WHEEL POSITION AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE
NORMAL TOP OF THE WHEEL POINTED
WHEN THE COLLISION OCCURRED?

EXAMPLES

O'CLOCK = 1 2

O'CLOCK = 0 2



(NORMAL STRAIGHT
AHEAD)



O'CLOCK = 11

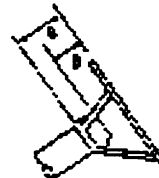
(99) UNKNOWN

STEERING WHEEL ENERGY ABSORBING DEVICE



(1) EXAMPLES:

BARRACUDA, 70 - 74
CHALLENGER, 70 - 74
CAPRI, 71 - 77



(2) EXAMPLES:

OMNI, 78 -
HORIZON, 78 -

STEERING COLUMN OPTIONS

TILT FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED, UNK POSITION
- (2) UP
- (3) MIDDLE
- (4) LOWER
- (9) UNKNOWN IF EQUIPPED

Full down

4
16

SWING-AWAY FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

0
17

TELESCOPING FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

0
18

TYPE OF DEVICE

- (0) NONE
- (1) CONVOLUTED OR MESH CYLINDER
- (2) DEEP DISH STEERING WHEEL
- (7) OTHER: _____
- (8) NOT COLLECTED
- (9) UNKNOWN IF EQUIPPED

ORIGINAL DIMENSION (mm)

A: _____

DAMAGE DIMENSION (mm)

B: _____

DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO MEASURE
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

8
19

8 8 8
20 22

STEERING WHEEL AND COLUMN SC-2

STEERING COLUMN
ENERGY ABSORBING DEVICE

TYPE OF DEVICE * (IF 27 OR 28)

- (00) NOT EQUIPPED
(88) NOT COLLECTED
(99) UNKNOWN

ORIGINAL LENGTH (mm)

C: _____

COMPRESSED LENGTH (mm)

D: _____

BRACKET DEFLECTION (IF CODE 36, 48,
OR 49 ABOVE)
OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE: ± 10)

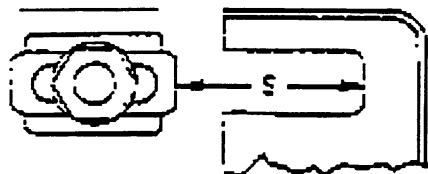
- (888) NOT COLLECTED
(991) NOT MEASURED/NO APPARENT
COMPRESSION
(992) COMPRESSED, AMOUNT UNKNOWN
(993) DEVICE EXTENDED
(997) UNABLE TO BE MEASURED
(998) NOT APPLICABLE (NOT EQUIPPED)
(999) UNKNOWN

* (ADD A & B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT & RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED
(991) NOT MEASURED/NO APPARENT
SEPARATION
(992) SEPARATED, AMOUNT UNKNOWN
(997) UNABLE TO BE MEASURED
(998) NOT APPLICABLE (NOT EQUIPPED)
(999) UNKNOWN

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION
(1) UPWARD APPARENT ROTATION
(2) DOWNWARD APPARENT ROTATION
(9) UNKNOWN

COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION
(1) LEFT APPARENT ROTATION
(2) RIGHT APPARENT ROTATION
(9) UNKNOWN

STEERING WHEEL (CONTINUED)

STEERING WHEEL HUB DAMAGE

- (0) NONE
(1) OCCUPANT CONTACT
(2) AIRBAG
(3) OTHER _____
(9) UNKNOWN

⌀
33

8 8
23 24

8 8 8
25 27

8 8 8
28 30

⌀
31

⌀
32

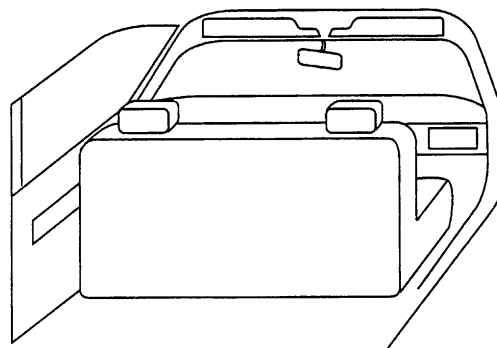
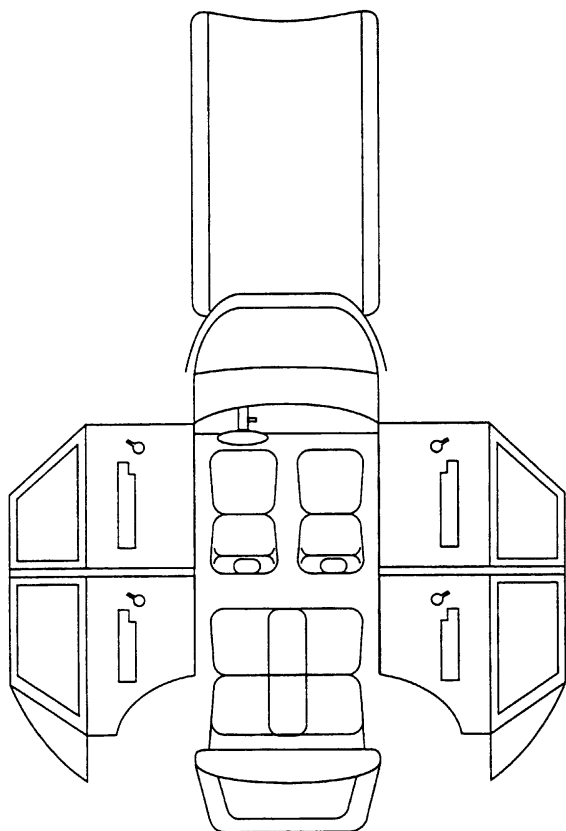
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

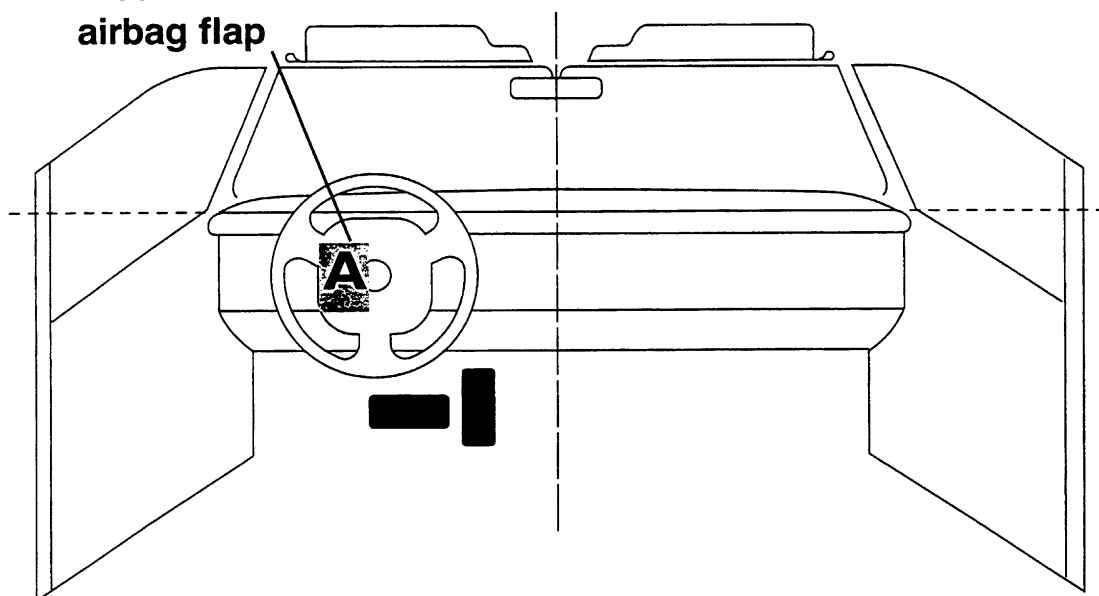
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	– Intruded Value	= Intrusion	
			–	=	
			–	=	
			–	=	
	None Apparent		–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	
			–	=	

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Airbag flap	1	arm	Cloth transfer	2
B					
C					
D					
E					
F					
G					
H					
J					



**Fiber transfer on
airbag flap**



CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- (1) LEFT (3) RIGHT INDIVIDUAL SEAT
- (1) LEFT (2) CENTER (3) RIGHT BENCH: FULL WIDTH 3 PASSENGER
- (1) LEFT (2) LEFT CENTER (6) RIGHT CENTER (3) RIGHT BENCH: FULL WIDTH 4 PASSENGER
- (1) LEFT (2) CENTER (5) RIGHT & BENCH: PARTIAL WIDTH, LEFT AISLE SPACE
- (0) LEFT & SPACE (2) CENTER (5) RIGHT & BENCH: PARTIAL WIDTH, CENTERED SPACE
- (4) ENTIRE VEHICLE WIDTH CARGO AREA

EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR
5 PASSENGERS

X	X	11	13
X	X	21	22 23

VAN
12 PASSENGER CAPACITY

X	X	11	13
X	X	X	21 22 25
X	X	X	31 32 35
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
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X	X	X	X
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X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X			

CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)
(Y) Y-AXIS (LATERAL)
(Z) Z-AXIS (VERTICAL)

CODES FOR COLUMNS G, H, I & J, OCCUPANT & INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	<u>CONTACT</u>
(00)	(00)	NO CONTACT
(##)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) OR (99)	UNKNOWN IF CONTACT

INTRUSION IT-4

CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.

INDIVIDUAL COMPONENT

INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (*DESCRIBE*)
- (26) UNKNOWN INTERNAL SURFACES
- (28) TRANSMISSION TUNNEL (HUMP)
- (29) SIDE FOOTWELL PANEL (KICKPANEL)
- (30) SILL

EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER
COMPARTMENT BUT PART
OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (*E.G. SPARE TIRE,
JACK. DESCRIBE.*)
- (49) UNKNOWN EXTERNAL OBJECT

GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

*USE ONLY IF ALL THESE COMPONENTS
INTRUDED INTO A SINGLE OCCUPANT SPACE.*

- | | |
|------------------------|-------------------------|
| (50) WINDSHIELD HEADER | (60) ROOF |
| A-PILLAR | ROOF RAIL |
| ROOF SIDE RAIL | A-PILLAR |
| | B-PILLAR |
| | C-PILLAR |
| (51) INSTRUMENT PANEL | WINDOW FRAME |
| A-PILLAR | DOOR PANEL |
| DOOR PANEL | FLOOR PAN |
| (52) INSTRUMENT PANEL | |
| A-PILLAR | (61) INSTRUMENT PANEL |
| WINDSHIELD HEADER | TOE PAN |
| | WINDSHIELD HEADER |
| (53) DOOR PANEL | A-PILLAR |
| B-PILLAR | ROOF RAIL |
| ROOF RAIL | WINDOW FRAME |
| | DOOR PANEL |
| (54) DOOR PANEL | ROOF |
| A-PILLAR | |
| ROOF RAIL | (62) ROOF |
| | ROOF RAIL |
| (55) INSTRUMENT PANEL | C-PILLAR |
| FLOOR PAN | WINDOW FRAME |
| A-PILLAR | FLOOR PAN |
| DOOR FRAME | SECOND SEAT |
| | DOOR PANEL |
| (56) ROOF RAIL | |
| A-PILLAR | (63) ROOF RAIL |
| B-PILLAR | ROOF |
| WINDOW FRAME | B-PILLAR |
| | WINDOW FRAME |
| (57) ROOF RAIL | FLOOR PAN |
| A-PILLAR | DOOR PANEL |
| B-PILLAR | SECOND SEAT |
| C-PILLAR | FRONT SEAT |
| DOOR PANEL | |
| (58) ROOF | (64) ROOF RAIL |
| ROOF RAIL | ROOF OR CONVERTIBLE TOP |
| WINDOW FRAME | A-PILLAR |
| DOOR PANEL | B-PILLAR |
| | WINDOW FRAME |
| (59) BACKLIGHT HEADER | WINDOW HEADER |
| ROOF | |
| C-PILLAR | (65) WINDSHIELD |
| THIRD SEAT-BACK | WINDSHIELD HEADER |
| | ROOF SIDE RAIL |
| | |
| | (66) WINDSHIELD |
| | WINDSHIELD HEADER |
| | A-PILLAR |
| | |
| | (98) NOT APPLICABLE |
| | (99) UNKNOWN |

Duplicate columns 1-8
from the previous card.

Module 1 T Format 0 1
9 10 11 12

INTRUSION IT-5

WAS THERE OCCUPANT COMPARTMENT INTRUSION?

0
13

WAS INTRUSION CATASTROPHIC?

14

- (0) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.
(1) YES ANSWER NEXT QUESTION.
(9) UNKNOWN SKIP PAGE.

- (0) NO COMPLETE PAGE.
(1) YES SKIP PAGE.

Duplicate columns 1-8
from the previous card.

Module 1 T Format 0 2
9 10 11 12

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
CODES FOR B, F, G, H, I, J ON PAGE IT-3
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0</u> <u>1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0</u> <u>2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0</u> <u>3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0</u> <u>4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0</u> <u>5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0</u> <u>6</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0</u> <u>7</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8
from the previous card.

Module 1 T Format 0 3
9 10 11 12

NOTE: IF NO SIDE DOOR INTRUSION,
SKIP REMAINDER OF PAGE.

SIDE DOOR INTRUSION
RESULTED FROM

INTRUSION
NUMBER CAUSE

CODES
FOR CAUSE:

- | | | |
|-------------|-------------|-----------------------|
| <u>13</u> — | <u>15</u> — | (1) DIRECT
IMPACT |
| <u>16</u> — | <u>18</u> — | (2) INDUCED
DAMAGE |
| <u>19</u> — | <u>21</u> — | (9) UNKNOWN |

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED
DOOR INTRUSION, CODE COMPONENT

INTRUSION
NUMBER

DAMAGED
COMPONENT 1

DAMAGED
COMPONENT 2

CODES
FOR COMPONENTS

A 22 23

—

25

B 26 27

—

29

C 30 31

—

33

D 34 35

—

37

- (0) NONE
(1) A-PILLAR
(2) B-PILLAR
(3) C-PILLAR
(4) LATCH/STRIKER
(5) HINGES
(7) OTHER: _____
(8) NOT APPLICABLE
(9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module 1 T Format 0 2
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

-- ADDITIONAL PAGE --

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
CODES FOR B, F, G, H, I, J ON PAGE IT-3
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 6</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 7</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —

Duplicate columns 1-8
from the previous card.

Module 1 D Format 0 1
9 10 11 12

INTERIOR DAMAGE

ID-1

CODES:

- (0) NO
(1) YES
(3) NO, and OCCUPANT CONTACT

- (4) YES, and OCCUPANT CONTACT
(8) NOT APPLICABLE
(9) UNKNOWN

	LEFT	RIGHT				
SIDES			FRONT		INSTRUMENT PANEL	
FRONT DOOR	Ø 13	Ø 14	FOOT CONTROLS	Ø 45	UPPER PANEL	Ø 55
FRONT HARDWARE	Ø 15	Ø 16	IGNITION KEYS	Ø 46	MID PANEL	Ø 56
FRONT ARMREST	Ø 17	Ø 18	REAR VIEW MIRROR	Ø 47	LOWER PANEL	Ø 57
FRONT GLASS	Ø 19	Ø 20	SUNVISOR/FITTINGS	Ø 48	ASHTRAY	Ø 58
REAR DOOR AREA	Ø 21	Ø 22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES		CONTROL KNOBS & LEVERS	Ø 59
REAR HARDWARE	Ø 23	Ø 24	WINDSHIELD TOP MOLDINGS	Ø 49	GLOVE COMPARTMENT AREA	Ø 60
REAR ARMREST	Ø 25	Ø 26	LEFT A-PILLAR (UPPER OR LOWER)	Ø 50	INSTRUMENTS	Ø 61
REAR GLASS	Ø 27	Ø 28	RIGHT A-PILLAR (UPPER OR LOWER)	Ø 51	PARKING BRAKE RELEASE	Ø 62
ROOF SIDE RAIL	Ø 29	Ø 30	CENTER CONSOLE	Ø 52	PARKING BRAKE PEDAL	Ø 63
B-PILLAR	Ø 31	Ø 32	TRANSMISSION SELECTOR LEVER	Ø 53	A/C OR UPPER VENT OUTLETS	Ø 64
C-PILLAR	Ø 33	Ø 34	RIM, HORN, SPOKE	Ø 54	HEATER OR A/C DUCTS	Ø 65
D-PILLAR	Ø 35	Ø 36			RADIO	Ø 66
HEADLINING	Ø 37	Ø 38			OTHER: * _____	Ø 67
ROOF STRUCTURE	Ø 39	Ø 40				
T-ROOF/SUN ROOF	Ø 41	Ø 42				
OTHER: * _____	Ø 43	Ø 44				
					REAR	
					WINDOW	Ø 68
					WINDOW HEADER	Ø 69
					CONSOLES	
					VERTICAL	Ø 70
					ROOF	Ø 71

* MORE THAN ONE ITEM MAY BE NOTED.

Duplicate columns 1-8 from the previous card.		Module <u>S</u> <u>T</u> 9 10		Format <u>0</u> <u>2</u> 11 12		SEATS		ST-1		
FRONT SEAT		DRIVER		PASSENGER		FRONT SEAT-BACK		DRIVER PASSENGER		
TYPE OF FRONT SEAT (00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN		<u>05</u> 13 14		<u>05</u> 15 16		SEAT-BACK TYPE (1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>3</u> 30		<u>3</u> 31
TYPE OF SEAT MOUNT (1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 17		<u>1</u> 18		SEAT-BACK LOCK TYPE (0) NONE (1) MANUAL (2) INERTIA (3) POWER (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>3</u> 32		<u>1</u> 33
SWIVEL MECHANISM EQUIPPED (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 19		<u>0</u> 20		LOCKS HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 34		<u>1</u> 35
ORIGINAL EQUIPMENT SEATS (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 21		<u>1</u> 22		RECLINER MECHANISM HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 36		<u>1</u> 37
CONTACT OF SEAT BY REAR OCCUPANT (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 23		<u>8</u> 24		HEAD RESTRAINT HEAD RESTRAINT TYPE (0) NONE (1) ADJUSTABLE (2) INTEGRAL (3) NOT INTEGRAL, BUT CANNOT BE REMOVED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 38		<u>1</u> 39
FRONT SEAT DAMAGE (0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 25		<u>0</u> 26		REMOVED PRE-CRASH (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 40		<u>0</u> 41
CENTER ARMREST DAMAGED (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED		<u>8</u> 27				ADJUSTMENT AT CRASH (1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN		<u>2</u> 42		<u>2</u> 43
FRONT SEAT ROTATION (0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (3) LEFT APPARENT (4) RIGHT APPARENT (5) MULTIPLE ROTATIONS SPECIFY _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 28		<u>0</u> 29		HEAD RESTRAINT DAMAGE (0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 44		<u>0</u> 45

FRONT SEAT ADJUSTMENT		DRIVER	PASSENGER	SECOND SEAT (CONT.)	
SEAT ADJUSTMENT TYPE (0) NONE (RIGID) (1) MANUAL (2) POWER (7) OTHER: _____ (8) NOT APPLICABLE (NO SEAT) (9) UNKNOWN		2 46	1 47	CENTER ARMREST DAMAGED (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	
ADJUSTMENT PROVIDED (1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		3 48	2 49	SECOND SEAT-BACK LOCKS FOR THE FOLLOWING, USE: (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	
SEAT ADJUSTER DAMAGE (0) NONE (1) CHUCKING (FREE PLAY) (2) DEFORMED (RELEASED/JAMMED) (3) SEPARATED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		0 50	0 51	LEFT OR CENTER, EQUIPPED LEFT OR CENTER, HELD (3) SEAT FOLDED DOWN RIGHT, EQUIPPED RIGHT, HELD (3) SEAT FOLDED DOWN	LEFT RIGHT
SEAT ADJUSTER SEPARATION (0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN		0 52	0 53	8 61 8 63 8 65 8 67	8 62 8 64 8 66 8 68
PRE-CRASH POSITION (1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN <i>Both Full rear</i>		3 54	3 55	THIRD SEAT EQUIPPED BACKREST DAMAGED CUSHION DAMAGED	
SECOND SEAT TYPE OF SECOND SEAT (0) NONE (1) NON-FOLDING (2) FOLDING (3) CAPTAIN'S CHAIR (4) JUMP SEAT (5) INTEGRAL CHILD SEAT (6) LUGGAGE AREA ACCESS PANEL (9) UNKNOWN		LEFT 3 56	RIGHT 3 57	1 69 0 71 0 73	1 70 0 72 0 74
SECOND SEAT DAMAGE (0) NONE (1) BACKREST ONLY (DAMAGED OR LOOSENED) (2) CUSHION ONLY (DAMAGED OR LOOSENED) (3) BACKREST & CUSHION (DAMAGED OR LOOSENED) (4) INTEGRAL CHILD SEAT (PRIORITY CODE) (5) LUGGAGE AREA ACCESS PANEL (DAMAGED OR LOOSENED) (8) NOT APPLICABLE (9) UNKNOWN		0 58	0 59	VEHICLE EQUIPPED WITH REAR HEAD RESTRAINTS (0) NOT EQUIPPED (OR REMOVED) (1) EQUIPPED (2) EQUIPPED & DAMAGED (8) NOT APPLICABLE (NO REAR SEAT) (9) UNKNOWN <i>Applies to any rear-seat position</i>	

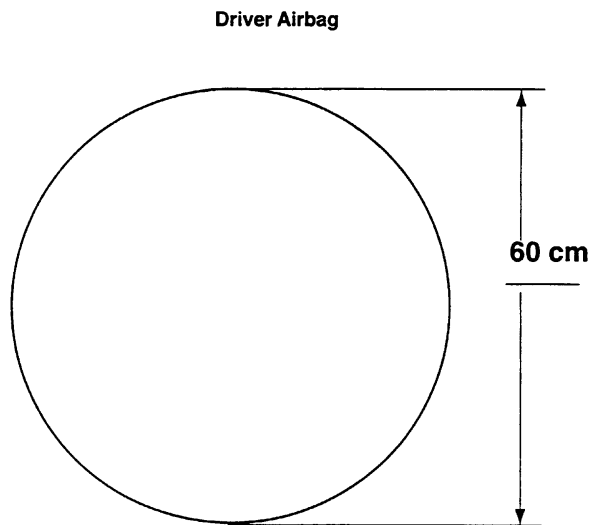
Duplicate columns 1-8
from the previous card.

Module A B Format 0 1
9 10 11 12

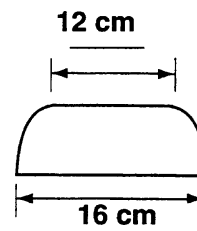
AIRBAG AB-1

<p>DRIVER SIDE</p> <p>LOCATION OF AIRBAG</p> <p>STEERING WHEEL</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 13</p> <p><u>1</u> 14</p>	<p>PASSENGER SIDE</p> <p>LOCATION OF AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 16</p> <p><u>1</u> 17</p>
<p>CONDITION OF AIRBAG</p> <p>STEERING WHEEL</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u> 15</p>	<p>CONDITION OF AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u> 18</p>
<p>DRIVER SIDE</p> <p>AIRBAG</p> <p>STEERING WHEEL</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>2 straps</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 19</p> <p><u>0</u> 20</p>	<p>PASSENGER SIDE</p> <p>AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>0</u> 21</p> <p><u>0</u> 22</p>

AIRBAG NUMBER ON DRIVER SIDE:



Driver Airbag Doors
Single Door



Vents: ☒ Y ☐ N

if yes, how many: 2

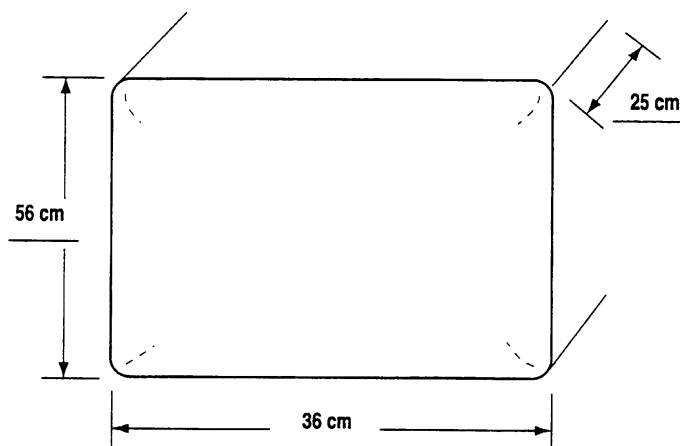
Tethers: ☒ Y ☐ N

if yes, how many: 2

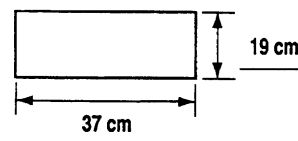
AIRBAG NUMBER ON PASSENGER SIDE:

NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:

Passenger Airbag



Passenger Airbag Doors
Single Door



Vents: ☒ Y ☐ N

if yes, how many: 2

Tethers: ☐ Y ☒ N

if yes, how many: _____

NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,
ARE TO BE FILLED IN
FOR EACH CASE VEHICLE OCCUPANT,
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,
USE ADDITIONAL COPIES
OF PAGES OC-1, OC-2, OC-3,
AND IC-2 TO DESCRIBE THEM
AND ATTACH THE COPIES TO THIS REPORT.

Duplicate columns 1-8
from the previous card.

Module 0 C Format 0 2
9 10 11 12

OCCUPANT INFORMATION OC-1

OCCUPANT IDENTIFICATION

OCCUPANT NUMBER

01
13 14

ROLE OF OCCUPANT AT 1ST IMPACT

- (1) MOTOR VEHICLE DRIVER
- (2) MOTOR VEHICLE PASSENGER
(NOT DRIVER)
- (9) UNKNOWN

1
15

PHYSICAL DESCRIPTION

AGE IN YEARS

- (00) LESS THAN 1 YEAR
- (98) 98 YEARS OR OLDER
- (99) UNKNOWN

47
20 21

AGE IN MONTHS

- (00) LESS THAN 1 MONTH
- (25) 25 MONTHS OR OLDER
- (99) UNKNOWN

25
22 23

MASS (kg)

- (999) UNKNOWN

067
24 25 26

HEIGHT (cm)

- (999) UNKNOWN

168
27 28 29

SEX

- (1) MALE
- (2) FEMALE
- (9) UNKNOWN

2
30

OCCUPANT POSITION

ROW LOCATION

- (1) FRONT
- (2) SECOND
- (3) THIRD
- (4) FOURTH
- (7) OTHER: _____
- (8) EXTERNAL TO PASSENGER
COMPARTMENT (E.G. BED OF PICKUP)
- (9) UNKNOWN

1
16

LATERAL LOCATION

- (1) LEFT
- (2) LEFT CENTER
- (3) CENTER
- (4) RIGHT CENTER
- (5) RIGHT
- (6) ALL (LYING ON SEAT)
- (8) EXTERNAL TO PASSENGER
COMPARTMENT
- (9) UNKNOWN

1
17

POSTURE

- (10) SITTING ON SEAT
- (11) SITTING ON SEAT IN ABNORMAL
POSITION (E.G. FEET ON DASH,
SIDEWAYS)
- (12) SITTING ON CONSOLE
- (20) ON LAP OR IN ARMS
- (30) STANDING ON SEAT
- (40) STANDING ON FLOOR
- (47) STANDING, EXTERNAL TO
PASSENGER COMPARTMENT
- (50) IN BASSINET
- (60) IN CHILD SEAT
- (65) IN CHILD HARNESS
- (70) LYING ON SEAT
- (80) LYING/SITTING ON PASSENGER
FLOOR
- (83) LYING/SITTING ON OTHER
OBJECT IN PASSENGER
COMPARTMENT: _____
- (85) ON CARGO FLOOR/FOLDED
SEAT-BACK
- (87) LYING/SITTING, EXTERNAL TO
PASSENGER COMPARTMENT
- (97) OTHER: _____
- (99) UNKNOWN

10
18 19

MEDICAL CONDITIONS

TREATMENT/MORTALITY

- (00) NONE
- (01) FIRST AID AT SCENE
- (02) TREATED AT HOSPITAL/CLINIC
BUT NOT ADMITTED
- (03) HOSPITALIZED FOR OBSERVATION
LESS THAN 24 HOURS
- (04) HOSPITALIZED OVER 24 HOURS
OR FOR SIGNIFICANT TREATMENT
- (05) FATAL, DEAD AT SCENE
- (06) FATAL, DOA
- (07) FATAL, DEAD WITHIN 24 HOURS
- (08) FATAL, DEAD 24 HOURS TO
31 DAYS LATER
- (09) FATAL, DEAD 31 DAYS TO
1 YEAR LATER
- (10) FATAL DEAD WITHIN UNKNOWN
PERIOD
- (99) UNKNOWN

00
31 32

INJURY SEVERITY SCORE (ISS)

- (99) UNKNOWN

01
33 34

NON-IMPACT MED. CONDITIONS

- (0) NONE
- (1) YES, TIME & TYPE UNKNOWN
- (2) PRE-CRASH FATAL (CLINICAL
DEATH AT WHEEL)
- (3) PRE-CRASH NON-FATAL (E.G.
PRIOR INJURY, STROKE)
- (4) PREGNANT
- (5) POST-CRASH FATAL (DROWNING)
- (6) POST-CRASH NON-FATAL INJURY
- (7) OTHER: _____
- (8) COMBINATION OF ABOVE
(CIRCLE EACH)
- (9) UNKNOWN

0
35

OCCUPANT INFORMATION OC-2

MEDICAL CONDITIONS (CONT.)

POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT

- (0) O - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO IMPACT
- (7) NON-FATAL INJURY,
SEVERITY UNKNOWN
- (9) UNKNOWN

2
36

CHILD SEAT TYPE

- (00) NONE USED
- (01) YES, USED
- (02) INTEGRAL, Chrysler Mini-van
- (88) NOT APPLICABLE
(ADULT OR OLDER CHILD)
- (99) UNKNOWN

88
41 42

CHILD SEAT MAKE/MODEL

RESTRAINT SYSTEM

ACTIVE RESTRAINT SYSTEM

- (0) NONE
- (1) LAP BELT
- (2) SHOULDER HARNESS ONLY
- (3) BOTH LAP BELT &
SHOULDER HARNESS
- (9) UNKNOWN

3
37

ACTIVE RESTRAINT SYSTEM USAGE

- (0) NONE (AVAILABLE BUT NOT USED)
- (1) LAP BELT ONLY
- (2) SHOULDER HARNESS ONLY
- (3) BOTH LAP BELT &
SHOULDER HARNESS
- (7) IMPROPER USAGE
- (8) NOT APPLICABLE (NONE AVAILABLE)
- (9) UNKNOWN

3
38

PASSIVE RESTRAINT SYSTEM

- (0) NONE
- (1) AIRBAG INSTALLED
- (2) PASSIVE UPPER TORSO
WITH KNEE BOLSTERS
- (3) PASSIVE UPPER TORSO
WITHOUT KNEE BOLSTERS
- (4) PASSIVE LAP & UPPER TORSO
- (5) AIRBAG INSTALLED &
PASSIVE RESTRAINT
- (7) OTHER: _____
- (9) UNKNOWN

1
39

PASSIVE RESTRAINT SYSTEM USAGE

- (0) SYSTEM DEFEATED
- (1) AIRBAG NOT DEPLOYED
- (2) AIRBAG DEPLOYED
- (3) AIRBAG NOT REINSTALLED
- (4) PASSIVE UPPER TORSO USED
- (5) PASSIVE LAP & UPPER TORSO USED
- (6) SYSTEM USED IN MANUAL MODE
- (7) IMPROPER USAGE
- (8) NOT APPLICABLE (NOT ORIGINALLY
EQUIPPED)
- (9) UNKNOWN

2
40

EJECTION

DEGREE OF EJECTION

- (0) NONE
- (1) PARTIAL
- (2) COMPLETE
- (7) EJECTED, DEGREE UNKNOWN
- (9) UNKNOWN IF EJECTED

0
43

AREA OF EJECTION

- (01) WINDOW, LEFT SIDE
- (02) WINDOW, RIGHT SIDE
- (03) WINDOW, REAR
- (04) DOOR, LEFT SIDE
- (05) DOOR, RIGHT SIDE
- (06) DOOR, REAR OR TAILGATE
- (07) WINDSHIELD
- (08) ROOF OR OPEN CONVERTIBLE OR
FROM EXTERNAL AREA
- (96) EJECTED AREA UNKNOWN
- (97) OTHER AREA: _____
- (98) NOT APPLICABLE (NOT EJECTED)
- (99) UNKNOWN IF EJECTED

98
44 45

IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW:

HEAD RESTRAINT

HEAD RESTRAINT AVAILABLE FOR THIS POSITION

- (0) NOT EQUIPPED OR REMOVED
- (1) EQUIPPED
- (9) UNKNOWN

1
46

OCCUPANT INFORMATION OC-3

OCCUPANT EYEWEAR

- (0) NONE
- (1) GLASSES
- (2) CONTACTS
- (3) BOTH GLASSES AND CONTACTS
- (4) OTHER _____
- (8) NOT APPLICABLE
- (9) UNKNOWN

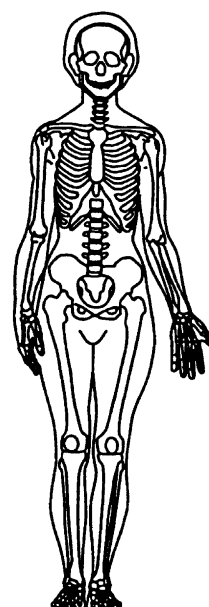
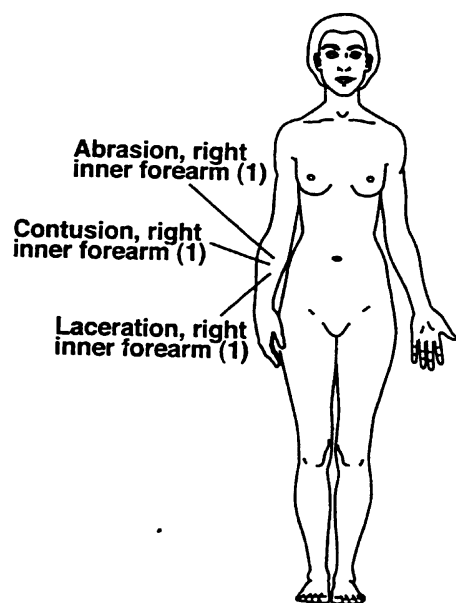
2
47

SOURCE OF INFORMATION

- (0) INTERVIEW
- (1) HOSPITAL
- (2) AUTOPSY
- (3) POLICE
- (4) OTHER _____
- (5) LAY CORONER/EXTERNAL EXAM
- (7) COMBINATION OF ABOVE (CIRCLE)
- (8) NOT APPLICABLE
- (9) UNKNOWN

1
48

INDICATE LOCATION OF INJURIES.



NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

OCCUPANT INJURY CLASSIFICATION

[illegible]

NOTE: USE ADDITIONAL PAGES IF NECESSARY.

CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (*X*)
- (55) MIDDLE INSTRUMENT PANEL (*Y*)
- (56) LOWER INSTRUMENT PANEL (*Z*)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (*SPECIFIC AREA UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (*AIRBAG*)
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)
- (41) UNKNOWN INTERIOR SURFACE

SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (91) KICKPANEL

ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

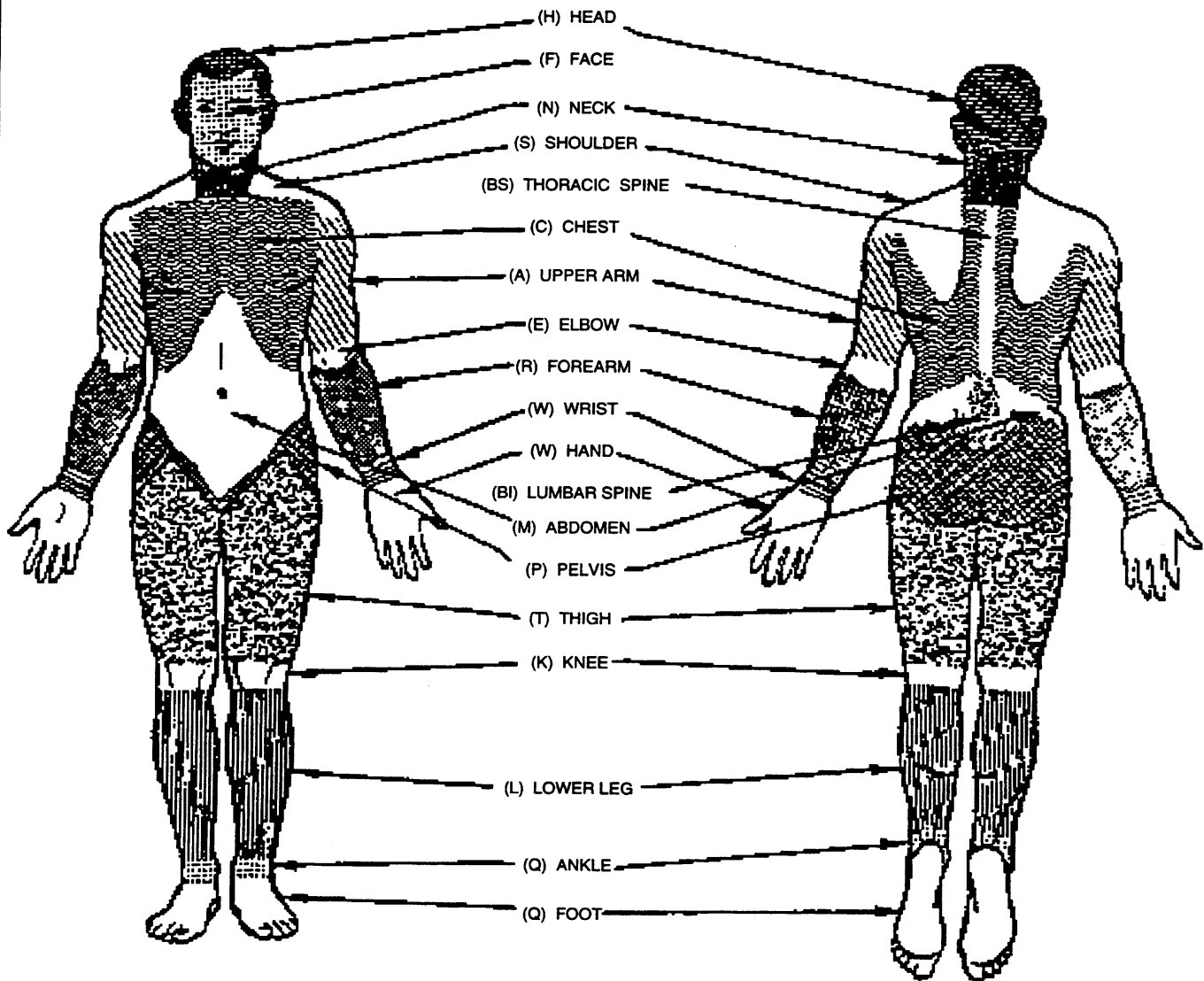
PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

MISCELLANEOUS

- (00) NO CONTACT (*INVALID FIELD FORM CODE*)
- (38) OTHER (*E.G. FIRE. DESCRIBE*)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

THE FIGURE BELOW
IS AN EXPLANATION OF THE BODY REGION CODES
LISTED ON PAGE IC - 4.



INJURY CLASSIFICATION IC-4

CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

1 BODY REGION

- (H) HEAD/SKULL
- (F) FACE
- (N) NECK
- (S) SHOULDER
- (X) UPPER EXTREMITIES
- (A) ARM (*UPPER*)
- (E) ELBOW
- (R) FOREARM
- (W) WRIST/HAND
- (C) CHEST
- (M) ABDOMEN
- (B) BACK
- (P) PELVIC/HIP
- (Y) LOWER EXTREMITIES
- (T) THIGH
- (K) KNEE
- (L) LEG (*LOWER*)
- (Q) ANKLE/FOOT
- (O) WHOLE BODY
- (U) UNKNOWN

3 LESION

- (L) LACERATION
- (C) CONTUSION
- (A) ABRASION
- (F) FRACTURE
- (P) PERFORATION, PUNCTURE
- (K) CONCUSSION
- (V) AVULSION
- (R) RUPTURE
- (S) SPRAIN
- (D) DISLOCATION
- (N) CRUSH
- (M) AMPUTATION
- (B) BURN
- (G) DETACHMENT, SEPARATION
- (Z) FRACTURE AND DISLOCATION
- (T) STRAIN
- (E) TOTAL SEVERANCE, TRANSECTION
- (O) OTHER
- (U) UNKNOWN

4 SYSTEM/ORGAN

- (S) SKELETAL
- (V) VERTEBRAE
- (J) JOINTS
- (D) DIGESTIVE
- (L) LIVER
- (N) NERVOUS SYSTEM
- (B) BRAIN
- (C) SPINAL CORD
- (E) EARS
- (O) EYES
- (A) ARTERIES
- (H) HEART
- (Q) SPLEEN
- (G) UROGENITAL
- (K) KIDNEYS
- (R) RESPIRATORY
- (P) PULMONARY/LUNGS
- (M) MUSCLES
- (T) THYROID, OTHER ENDOCRINE GLAND
- (I) INTEGUMENTARY (*SKIN*)
- (W) ALL SYSTEMS IN REGION
- (U) UNKNOWN

2 ASPECT

- (R) RIGHT
- (L) LEFT
- (B) BILATERAL
- (C) CENTRAL
- (A) ANTERIOR/FRONT
- (P) POSTERIOR/BACK
- (S) SUPERIOR/UPPER
- (I) INFERIOR/LOWER
- (W) WHOLE REGION
- (U) UNKNOWN

5 SEVERITY (OR "AIS", ABBREVIATED INJURY SCALE)

- (0) NONE
- (1) MINOR
- (2) MODERATE
- (3) SERIOUS
- (4) SEVERE
- (5) CRITICAL
- (6) MAXIMUM
- (9) UNKNOWN

BODY REGION	ASPECT	LESION	SYSTEM/ORGAN	SEVERITY
1	2	3	4	5

Case No.: 208-88
Veh. #1: 1988 Mercury
Type: "Villager", minivan
Driver: 47-year-old female
Veh. #2: 1988 Acura/legend, 4-door sedan

Light Conditions: Daylight
Weather: Clear
Road Surface: Dry
Road Construction: Asphalt





PN 20800 #2



PN 20800 #3



PN 20800 #4
Best Available



PN 20800 #5
Best Available



PN 20800 #6
Best Available



PN 20800 #7
Best Available



PN 20800 #8



PN 20800 #9



PN 20800 #10



PN 20800 #11



PN 20800 #12
Best Available



PN 20800 #13



PN 20800 #14
Best Available



PN 20800 #15
Best Available



PN 20800 #16
Best Available



PN 20800 #17



PN 20800 #18
Best Available



PN 20800 #19
Best Available



PN 20800 #20
Best Available



PN 20800 #21
Best Available



PN 20800 #22



PN 20800 #23



PN 20800 #24



PN 20800 #25



PN 20800 #26



PN 20800 #27



PN 20800 #28



PN 20800 #29



PN 20800 #30



PN 20800 #31



PN 20800 #32



PN 20800 #33



PN 20800 #34

CASE NO.: 208-88

CASE VEHICLE: 1988 Mercury

TYPE: Rollover, minor

OCCUPANT: driver, 45-year-old female

STATURE: 5'00-in (152.4 cm) MASS: 87 kg (191 lb)

RESTRAINTS: 3-point belt worn, airbag-deployed

SEVERITY: RACI = 1 ISS = 1

